

669000" 94469E60

FIG.1

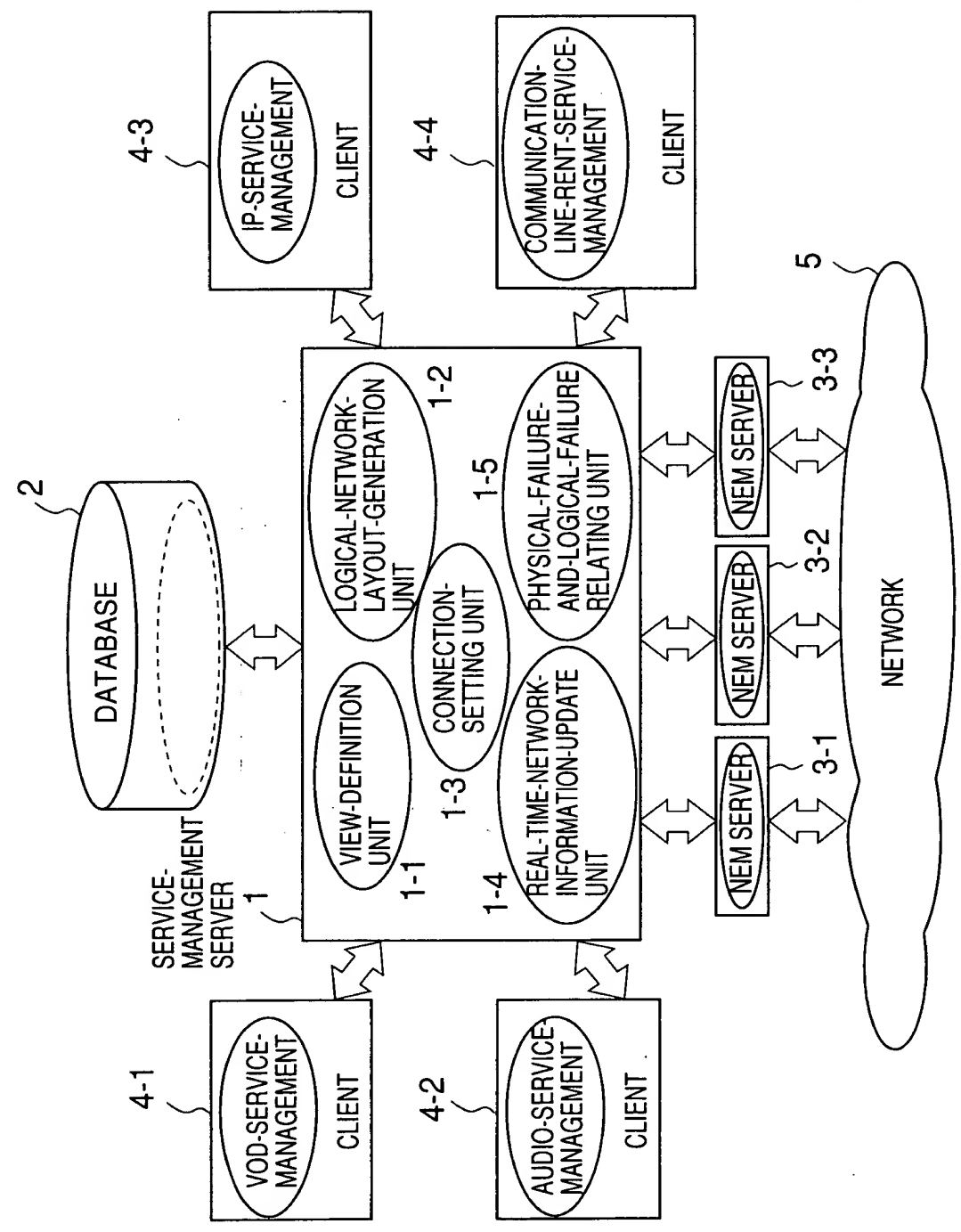
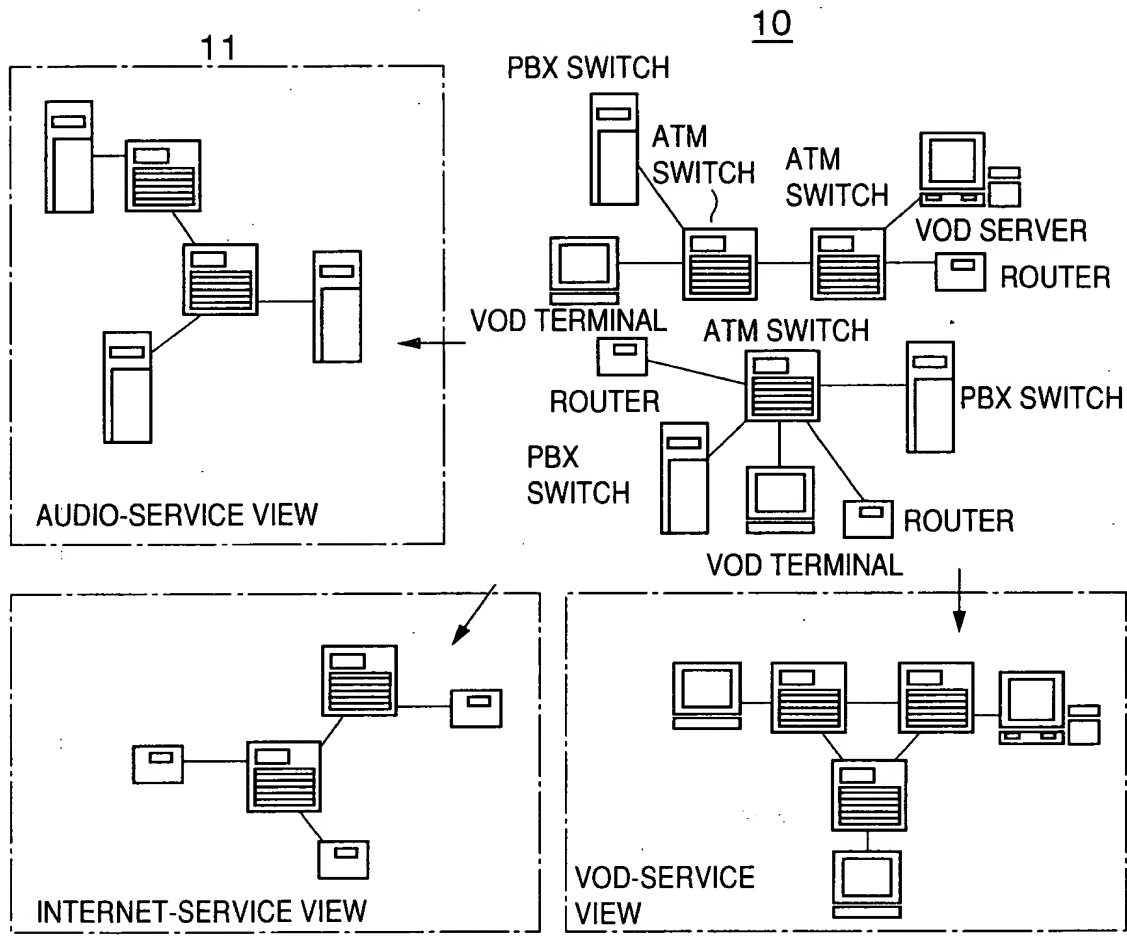


FIG.2



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FIG.3

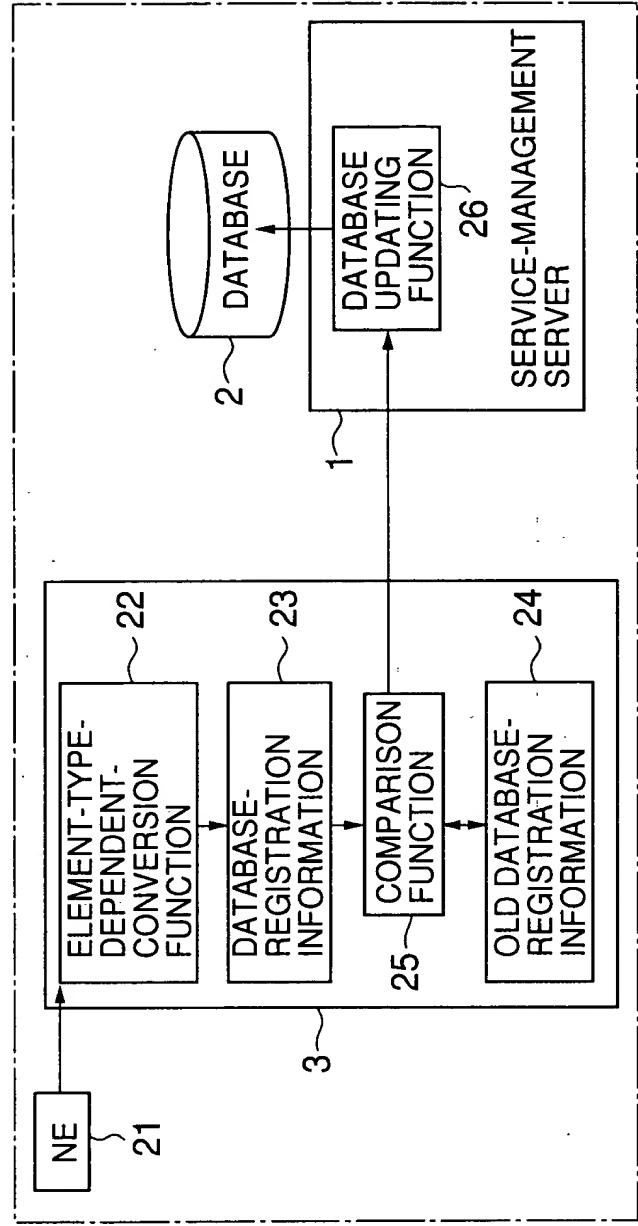
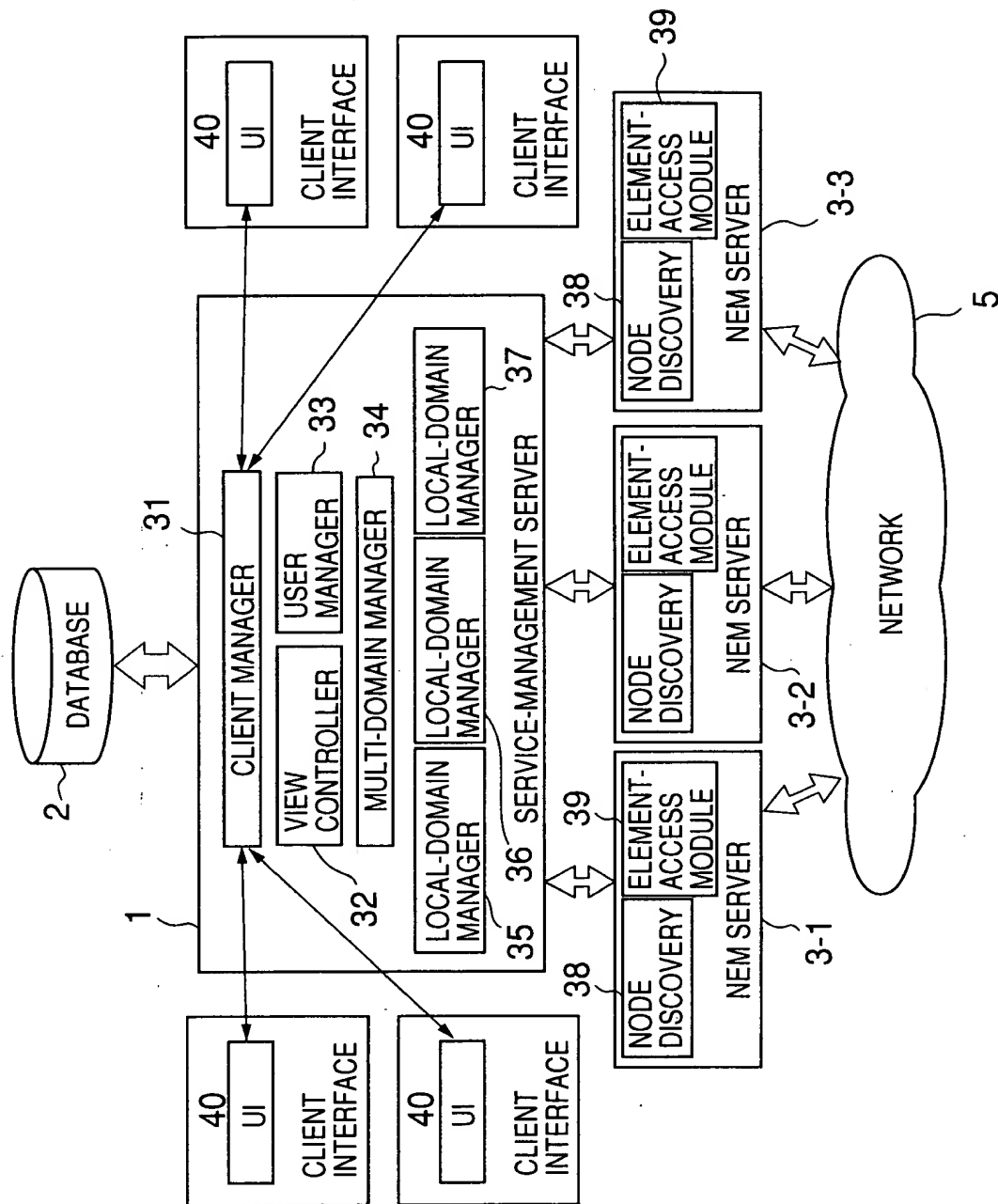


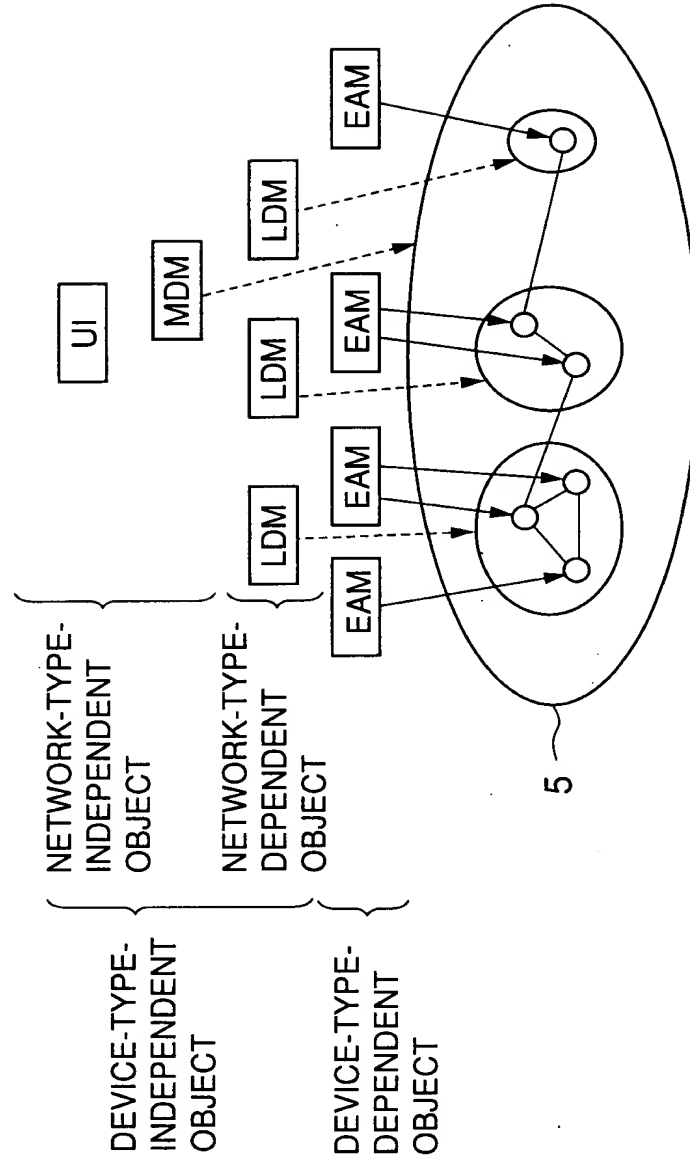
FIG.4



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APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
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FIG.5



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FIG.6

DATABASE ITEM	INFORMATION TO BE COLLECTED FROM NETWORK ELEMENT	CONVERSION METHOD
NETWORK CONFIGURATION	DETECTING NETWORK ELEMENT	MANUAL ENTRY OF DATA INTO DATABASE (ADDING/DELETING LINK, DELETING NODE)
NODE STATUS	FAILURE OF NETWORK ELEMENT-RECOVERY	OBTAINING NODE-FAILURE LEVEL VIA ELEMENT-ACCESS MODULE PROVIDING MATCHES BETWEEN FAILURE CODES AND FAILURE LEVEL, AND UPDATING DATABASE IF THERE IS CHANGE IN NODE-FAILURE LEVEL
LINK STATUS	FAILURE OF NETWORK-ELEMENT PORT-RECOVERY	OBTAINING LINK-FAILURE LEVEL VIA LOCAL-DOMAIN MANAGER/MULTI-DOMAIN MANAGER PROVIDING MATCHES BETWEEN PORT-RELATED FAILURE CODES AND LINK-FAILURE LEVEL, AND UPDATING DATABASE IF THERE IS CHANGE IN LINK-FAILURE LEVEL
CONNECTION ROUTE	CROSS CONNECT	CONNECTING CROSS-CONNECTS TOGETHER. CORRECTING ROUTE INFORMATION IF THERE IS CHANGE IN CROSS CONNECT. DELETING ENTRY FROM DATABASE WHEN NO CROSS CONNECT EXISTS ANY LONGER.
CONNECTION STATUS	FAILURE OF NETWORK ELEMENT AND PORT	EXTRACTING CONNECTION FROM ROUTE INFORMATION WHEN CONNECTION RELATES TO FAILURE

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FIG.7

EVENT	TYPE OF MODIFICATION	COLLECTED ITEM	DESCRIPTION
NODE FAILURE	NODE-STATUS MODIFICATION LINK-STATUS MODIFICATION S-PVC-ROUTE MODIFICATION	NEW ROUTE OF S-PVC CONNECTION THAT HAD ROUTE PASSING THROUGH FAILED NODE/LINK	
RECOVERY FROM NODE FAILURE	NODE-STATUS MODIFICATION NODE-CONFIGURATION MODIFICATION LINK-STATUS MODIFICATION	NODE-CONFIGURATION INFORMATION AND ROUTE EXPECTED TO BE LAID OUT IN RESPONSE TO CHANGE IN NODE CONFIGURATION	
ADDING CONNECTION	ADDING CONNECTION	ROUTE OF ADDED CONNECTION	
MODIFYING CONNECTION	MODIFYING CONNECTION	ROUTE OF MODIFIED CONNECTION	
DELETING CONNECTION	DELETING CONNECTION	ROUTE OF DELETED CONNECTION	
USER REQUEST	ANY MODIFICATION	REQUESTED ITEM	

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APPROVED	O.G. FIG.
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FIG.8

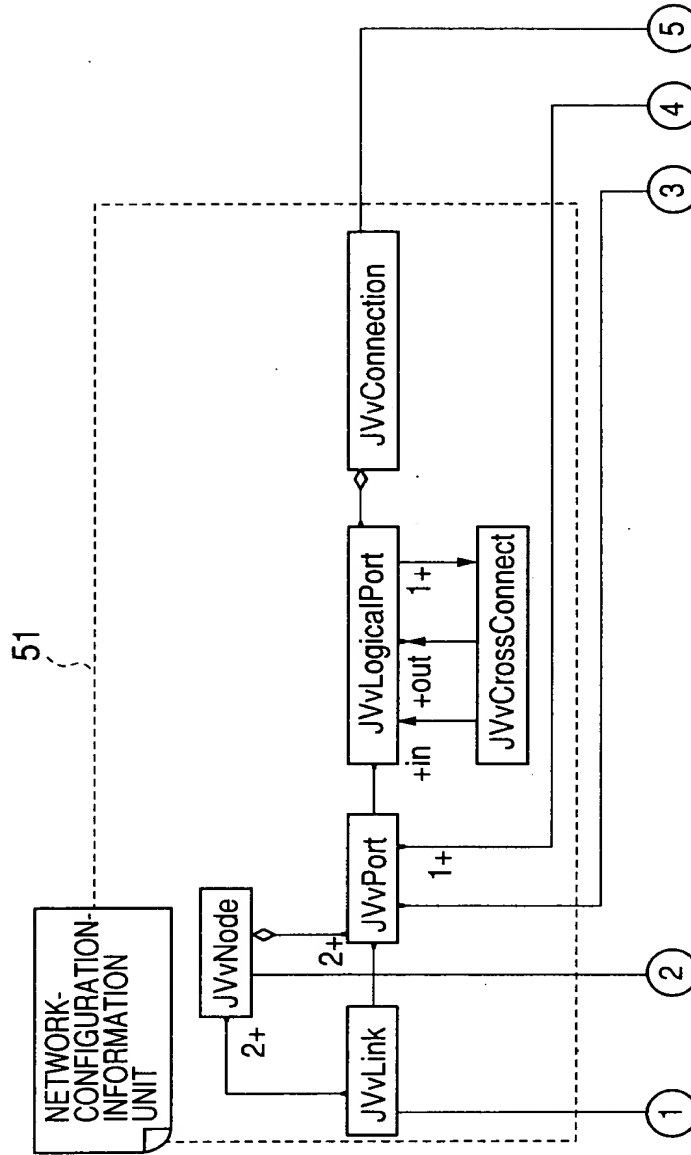
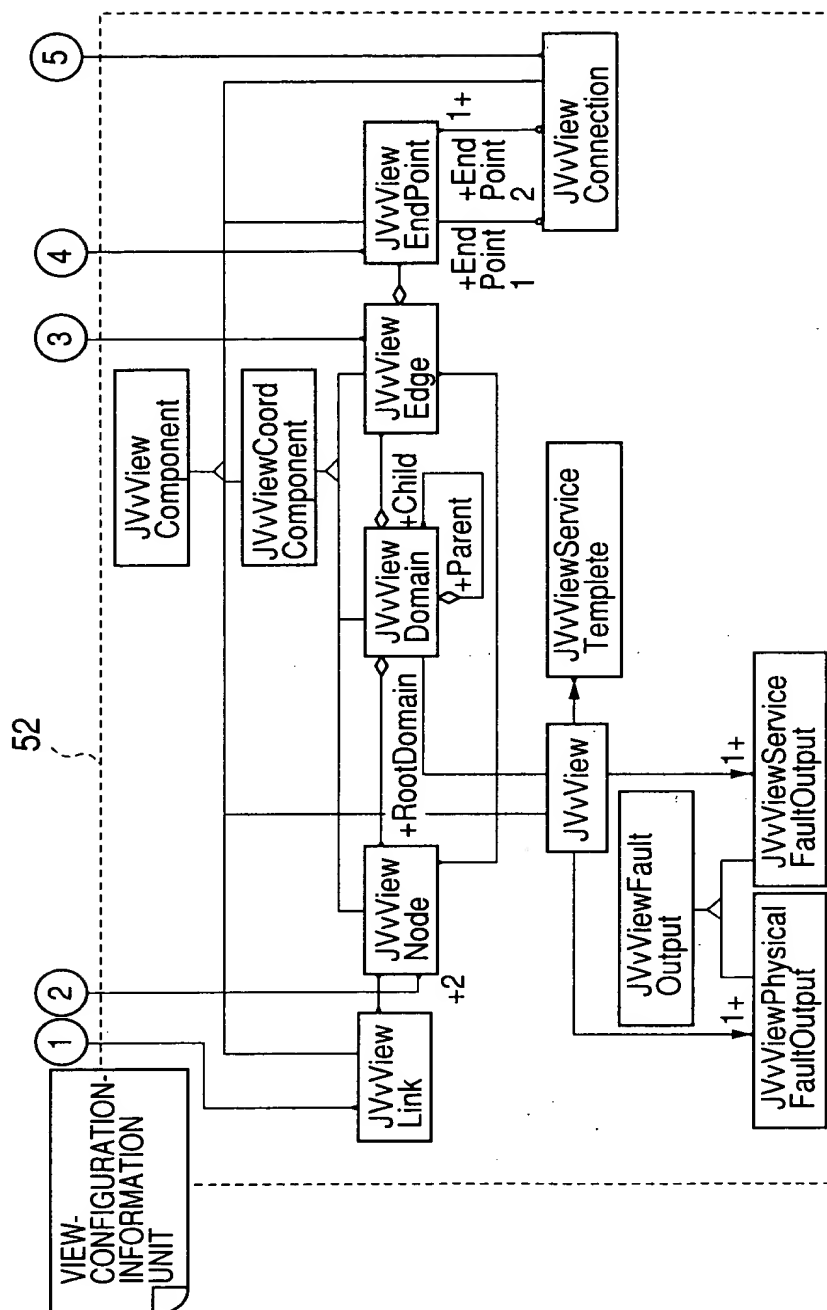


FIG. 9



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FIG.10A

DATABASE-ITEM NAME	CONTENTS	DESCRIPTION
JVvNode	NODE	INFORMATION ON NETWORK ELEMENT
JVvLink	LINK	INFORMATION ON COMMUNICATION LINE
JVvPort	PORT	ATTRIBUTE INFORMATION ON END PORT OF COMMUNICATION LINE
JVvLogicalPort	LOGICAL PORT	ATTRIBUTE INFORMATION ON END POINTS OF CONNECTION
JVvConnection	CONNECTION	ATTRIBUTE INFORMATION ON END-TO-END CONNECTION
JVvCrossConnect	CROSS CONNECT	INFORMATION ON CONNECTION ROUTE AND DETAILED ATTRIBUTE

FIG.10B

DATABASE-ITEM NAME	CONTENTS	DESCRIPTION
JVvView	VIEW	INFORMATION FOR CONTROLLING EACH VIEW
JVvViewDomain	DOMAIN	UNIT OF CONTROL INTO WHICH VIEW IS DIVIDED
JVvViewNode	VIEW NODE	NODE REGISTERED AS VIEW-CONFIGURATION INFORMATION
JVvViewLink	VIEW LINK	LINK REGISTERED AS VIEW-CONFIGURATION INFORMATION
JVvViewEdge	EDGE	VIRTUAL DEVICE AT END OF NETWORK
JVvViewConne- ction	VIEW CONNECTION	CONNECTION REGISTERED AS VIEW- CONFIGURATION INFORMATION
JVvViewEndPoint	END POINT	ENDPOINT OF CONNECTION BELONGING TO EDGE
JVvViewService Template	SERVICE TEMPLATE	SHARED INFORMATION ABOUT CONNECTION FOR EACH SERVICE
JVvViewPhysical FaultOutput	INFORMATION ON PHYSICAL FAIL OUTPUT	RULE ABOUT GUI DISPLAY OF PHYSICAL FAILURE
JVvViewService FaultOutput	INFORMATION ON SERVICE FAIL OUTPUT	RULE ABOUT GUI DISPLAY OF SERVICE FAILURE

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FIG.11A

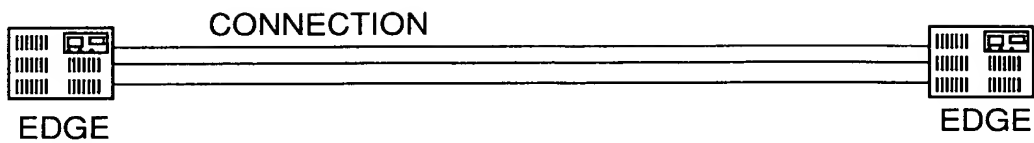


FIG.11B

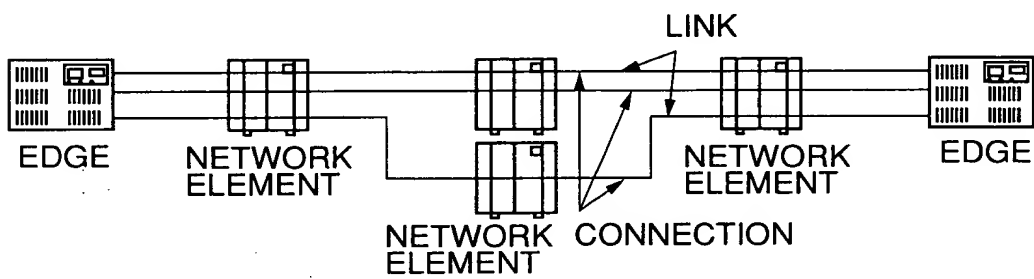
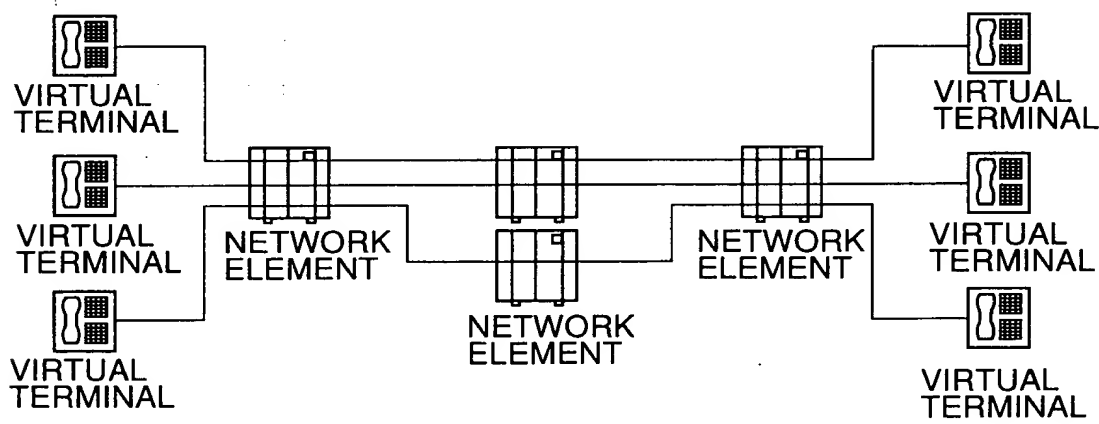


FIG.11C



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APPROVED	O.G. FIG.	
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FIG.12A

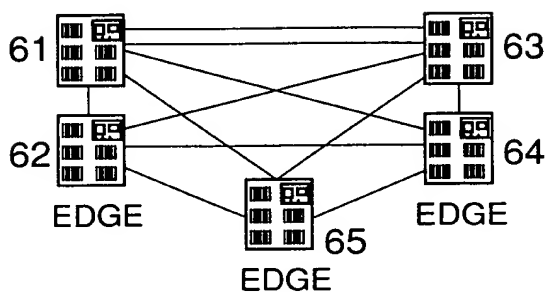


FIG.12B

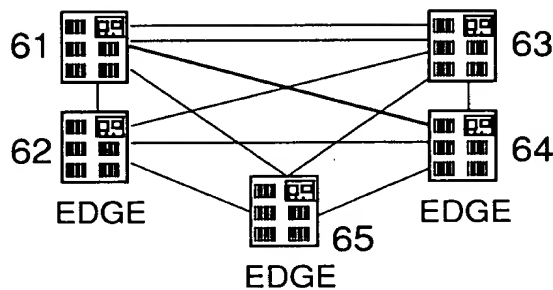


FIG.12C

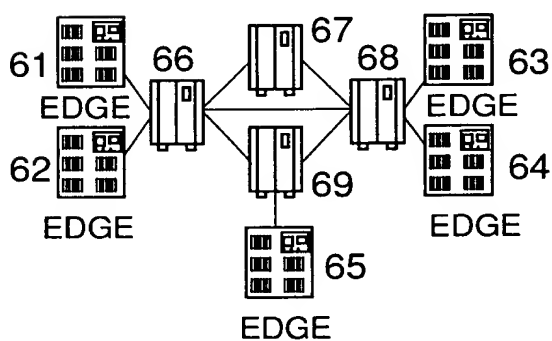
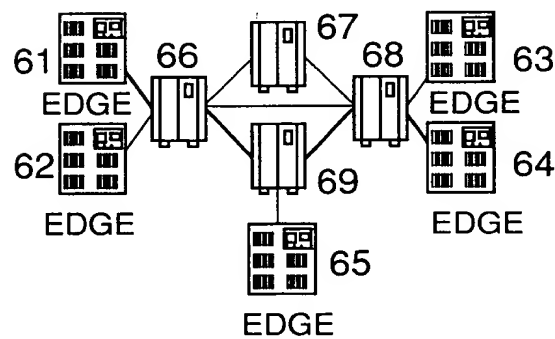
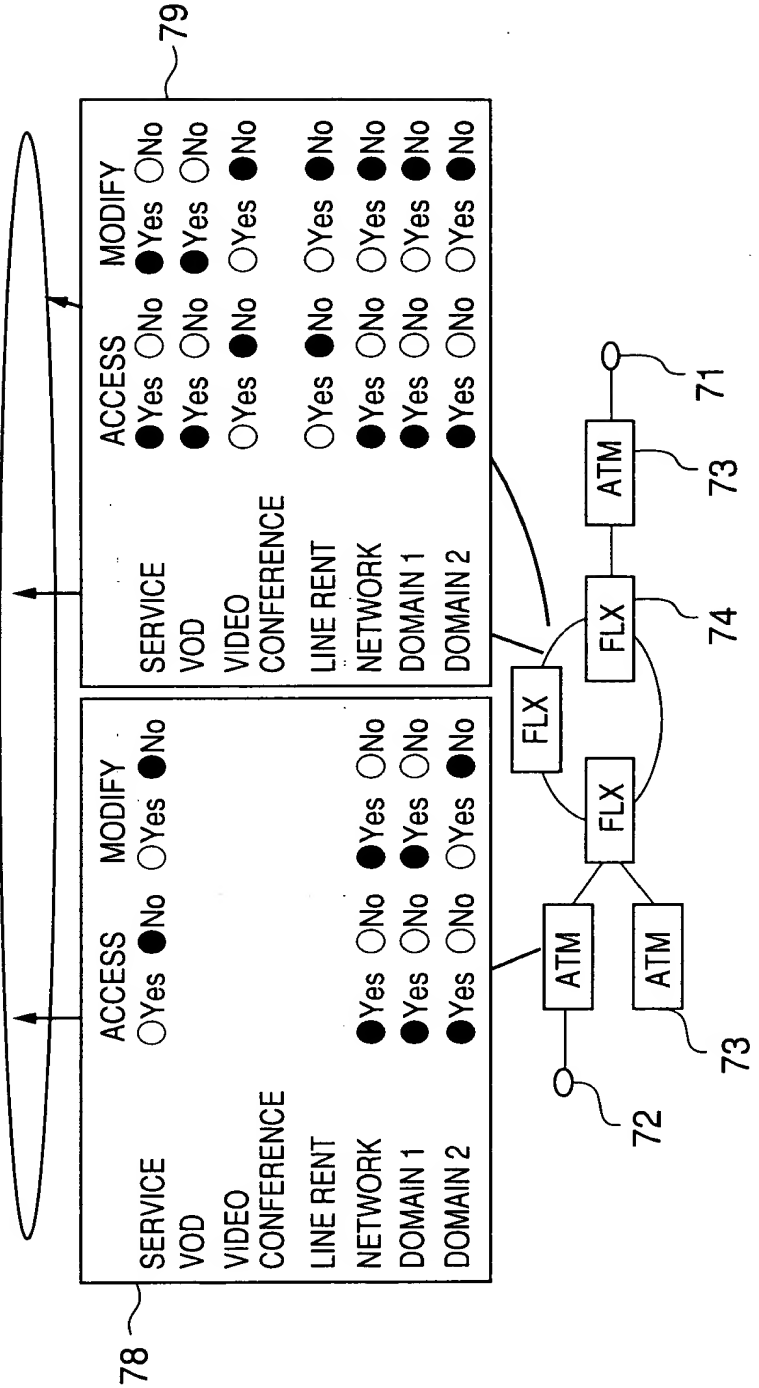


FIG.12D

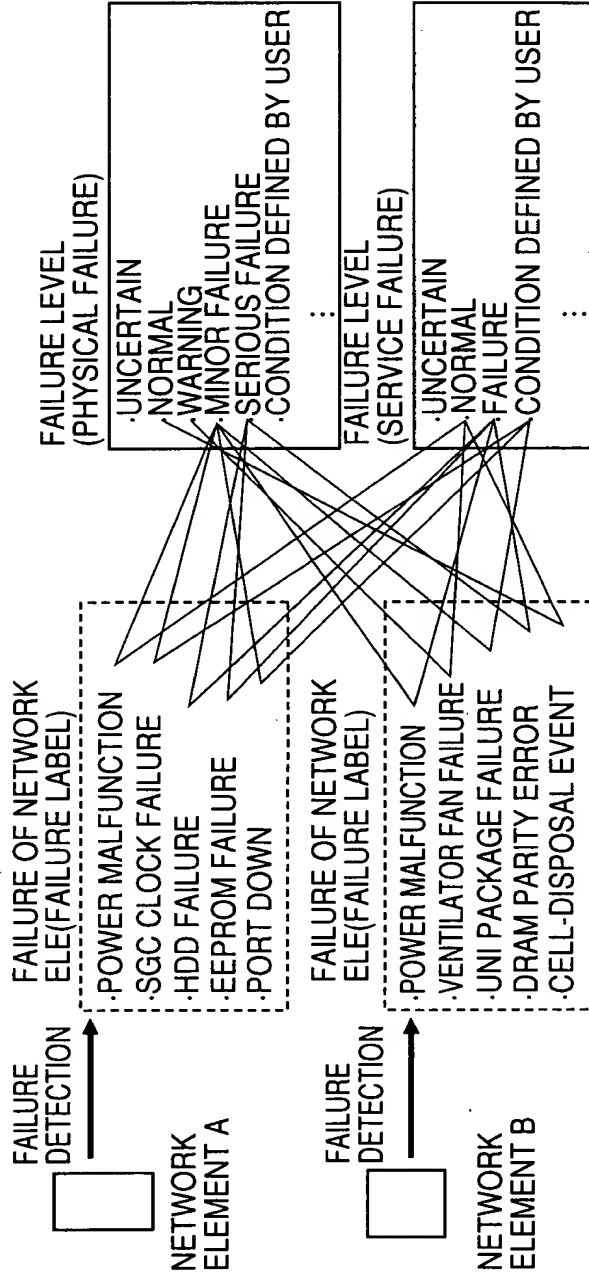


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FIG.14



APPROVED	O.G. FIG.	
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FIG.15A

FAILURE LEVEL	FAILURE NAME	ICON NAME	ALARM-SOUND ID
-1	UNCERTAIN	GRAY	0
0	NORMAL	GREEN	0
1	WARNING	YELLOW	1
2	MINOR FAILURE	ORANGE	2
3	SERIOUS FAILURE	RED	3

FIG.15B

FAILURE LEVEL	FAILURE NAME	ICON NAME	ALARM-SOUND ID
-1	UNCERTAIN	GRAY	0
0	NORMAL	GREEN	0
1	FAILURE	RED	1

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APPROVED	O.G. FIG.	
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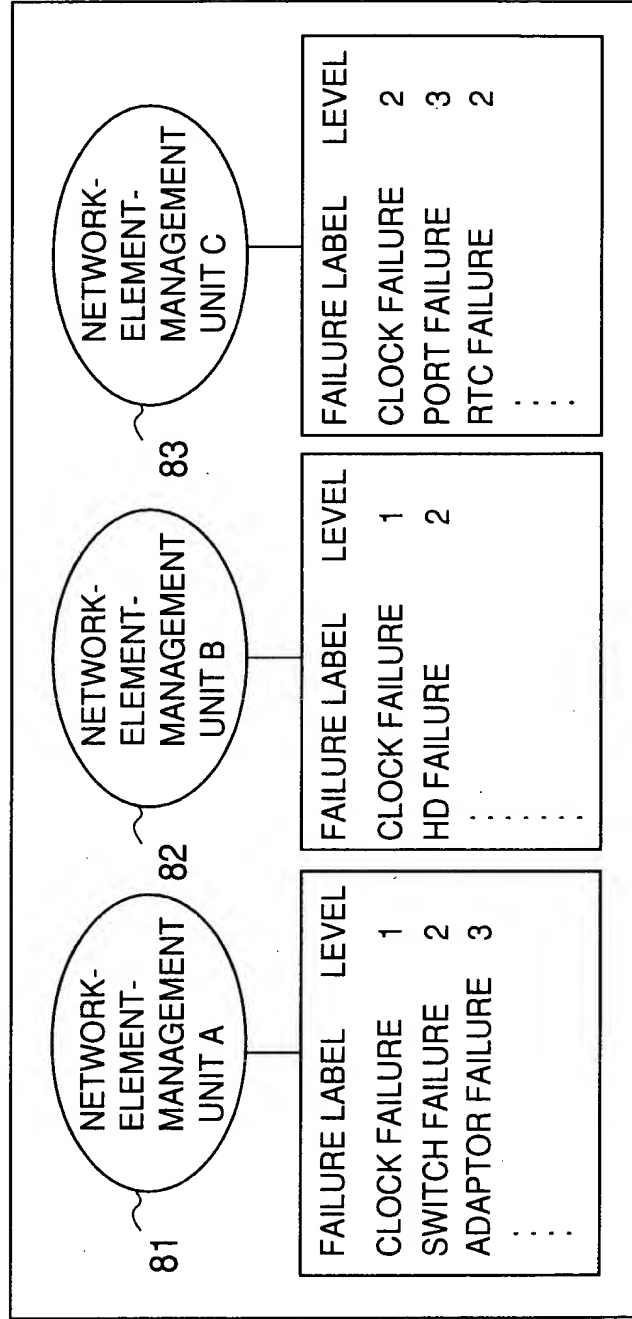
FIG.16

FAILURE LABEL	PHYSICAL FAILURE LEVEL	SERVICE FAILURE LEVEL
RECOVERY FROM CLOCK FAILURE	0	0
CLOCK FAILURE	3	1
RECOVERY FROM POWER FAILURE	0	0
POWER FAILURE	3	1
RECOVERY FROM UPS FAILURE	0	0
UPS FAILURE	3	1
RECOVERY FROM FAN FAILURE	0	0
FAN FAILURE	2	0
RECOVERY FROM HARD-DRIVE FAILURE	0	0
HARD-DRIVE FAILURE	3	1
RECOVERY FROM RTC FAILURE	0	0
RTC FAILURE	3	1
RECOVERY FROM TEMPERATUR FAILURE	0	0
TEMPERATUR FAILURE	2	0
RECOVERY FROM EEPROM FAILURE	0	0
EEPROM FAILURE	3	1
RECOVERY FROM STANDBY FAILURE	0	0
STANDBY FAILURE	2	0
RECOVERY FROM Sbus FAILURE	0	0
Sbus FAILURE	3	1
RECOVERY FROM Sbus FAILURE	0	0
Sbus FAILURE	3	1
RECOVERY FROM PORT FAILURE	0	0
PORT FAILURE	3	1

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APPROVED	O.G. FIG.	
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FIG.17



APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
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FIG.18

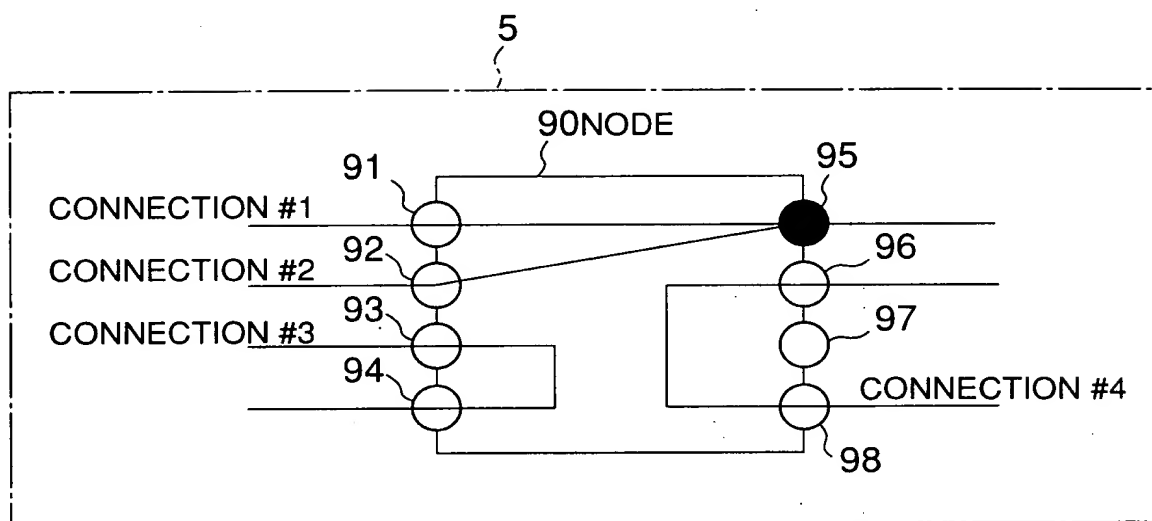
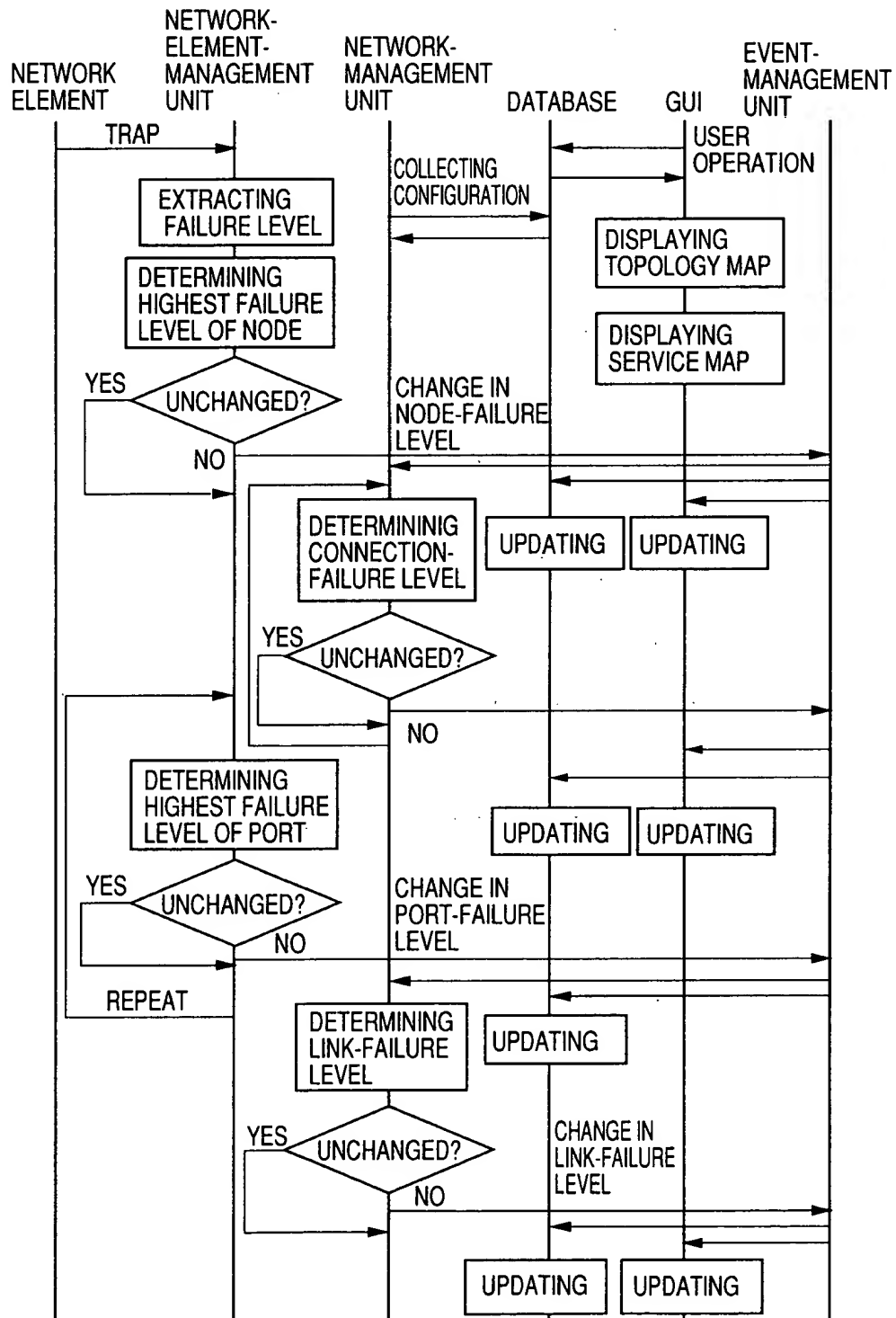


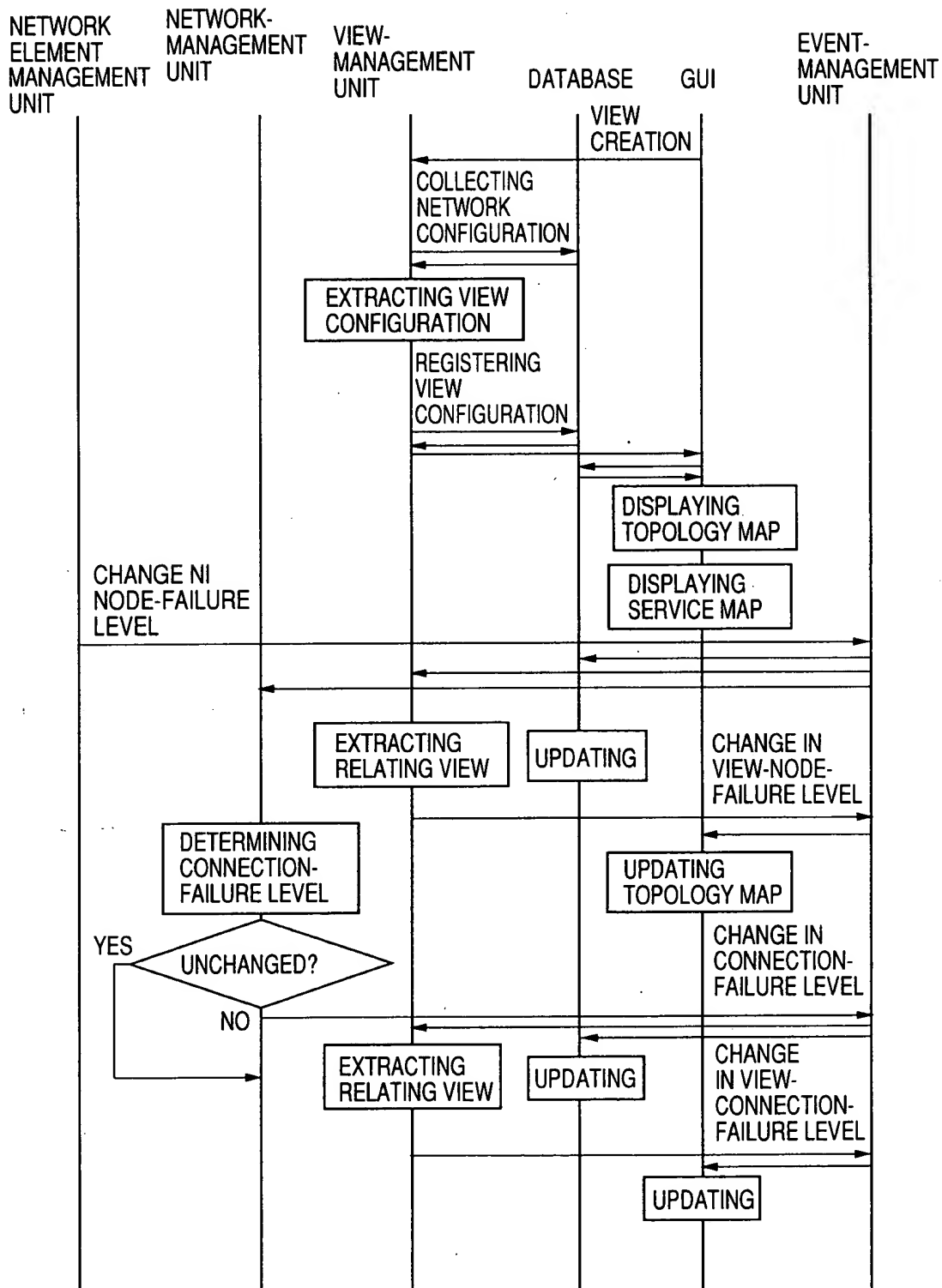
FIG.19



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APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
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FIG.20

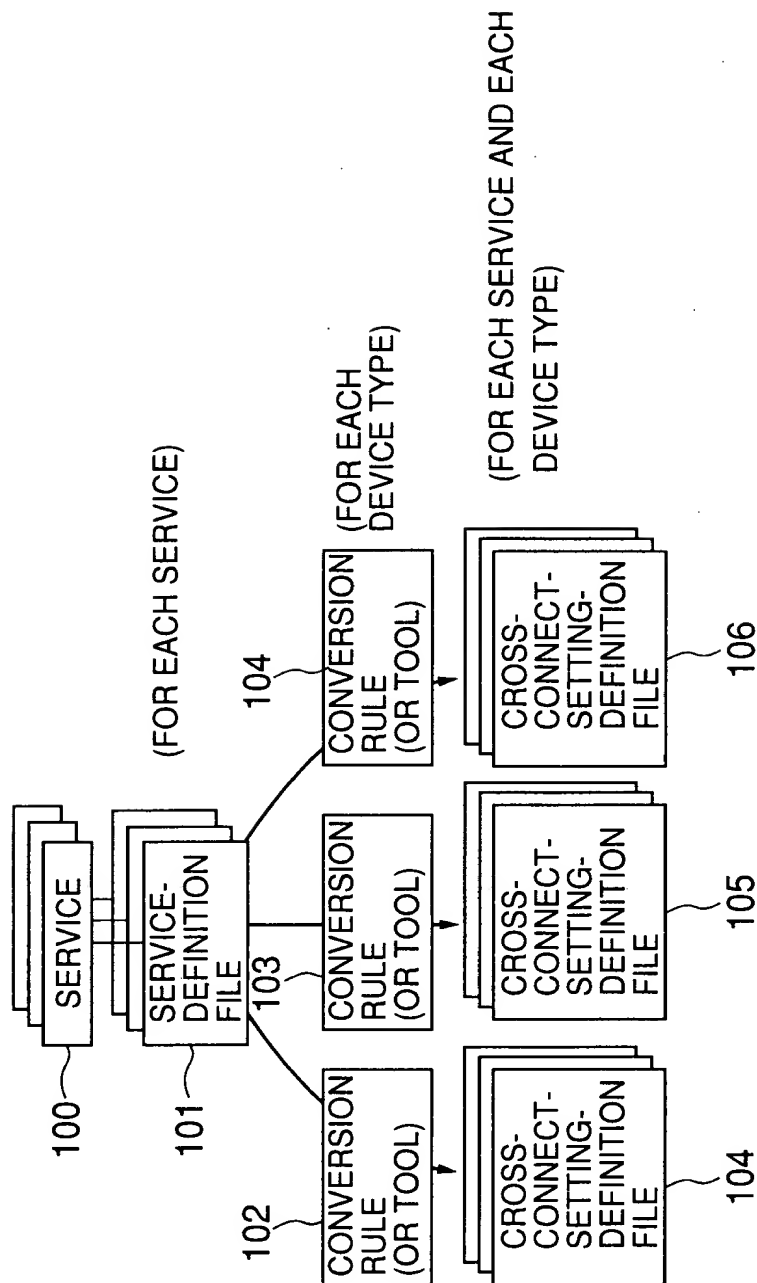


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APPROVED	O.G. FIG.	
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FIG.21



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APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
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FIG.22

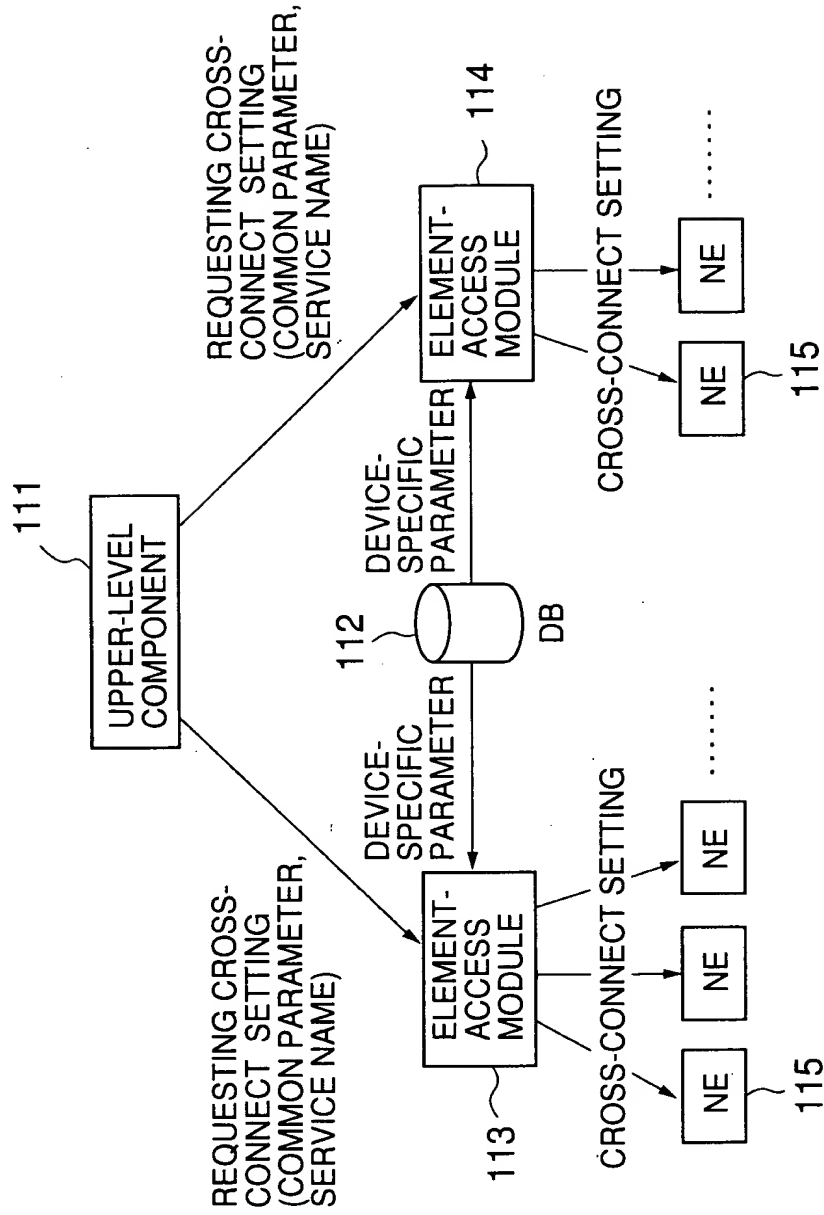
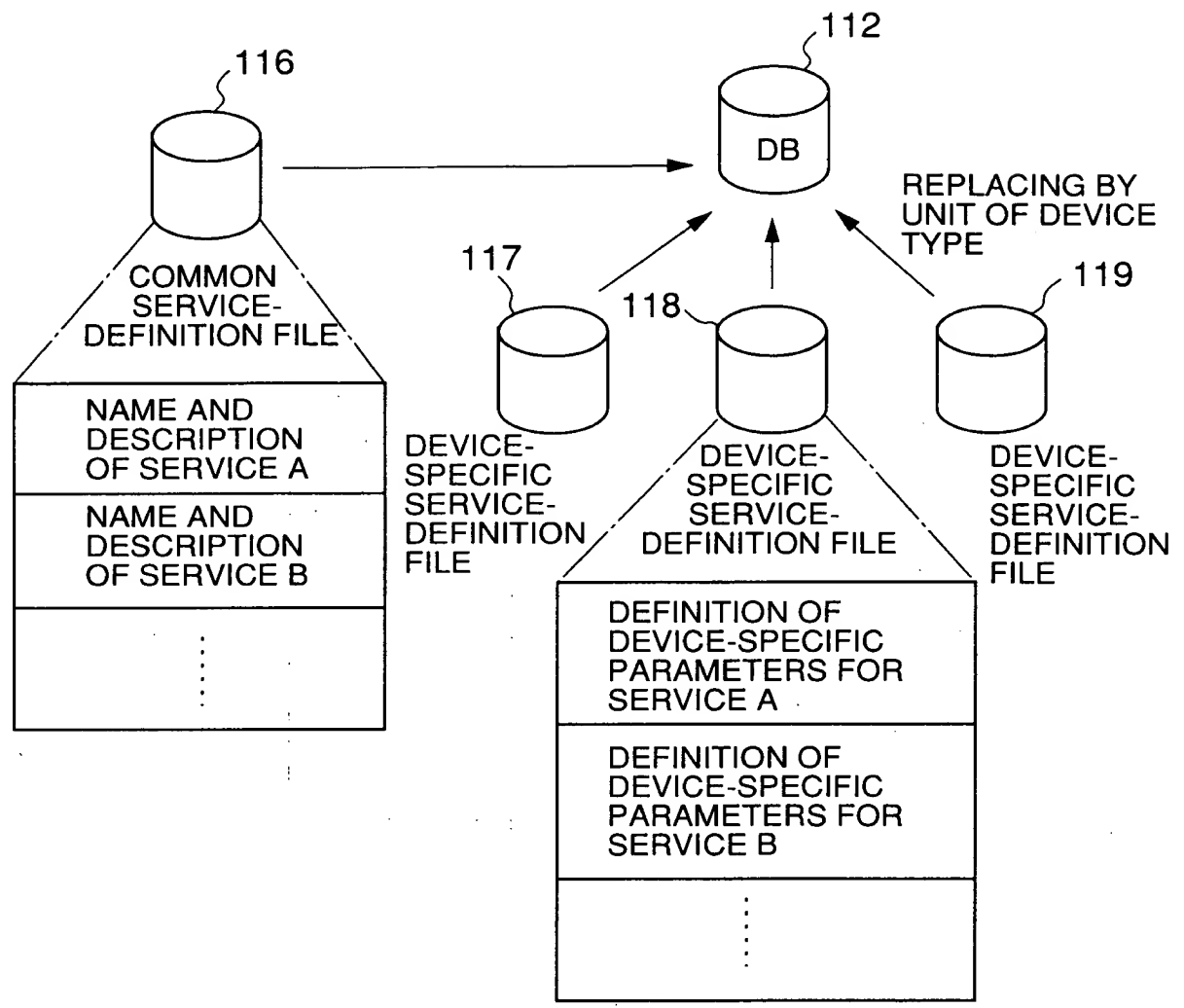


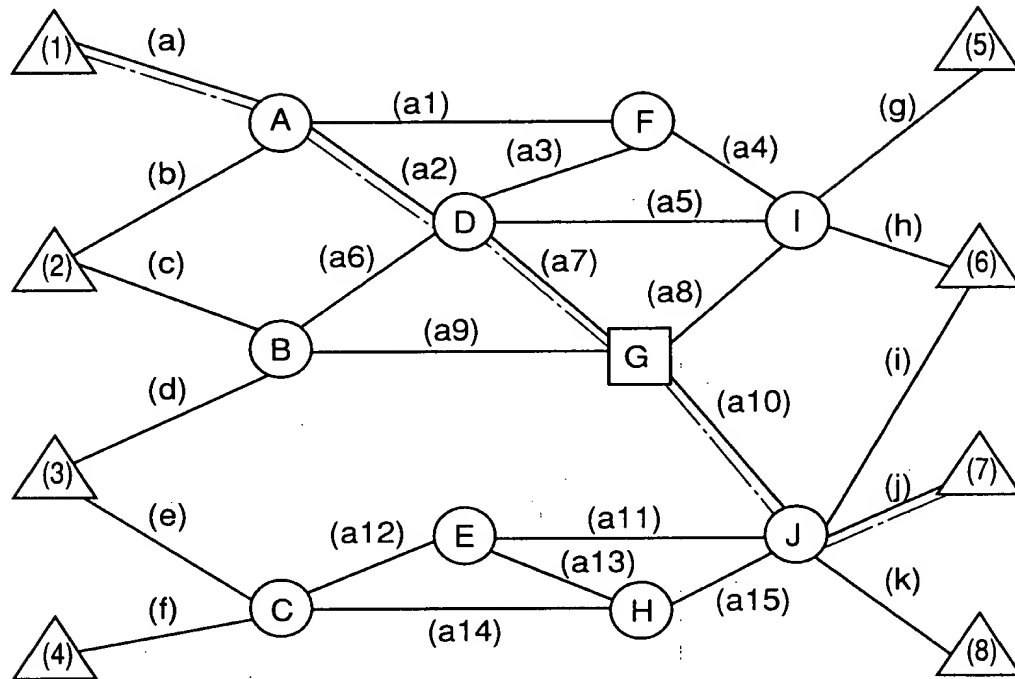
FIG.23



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APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
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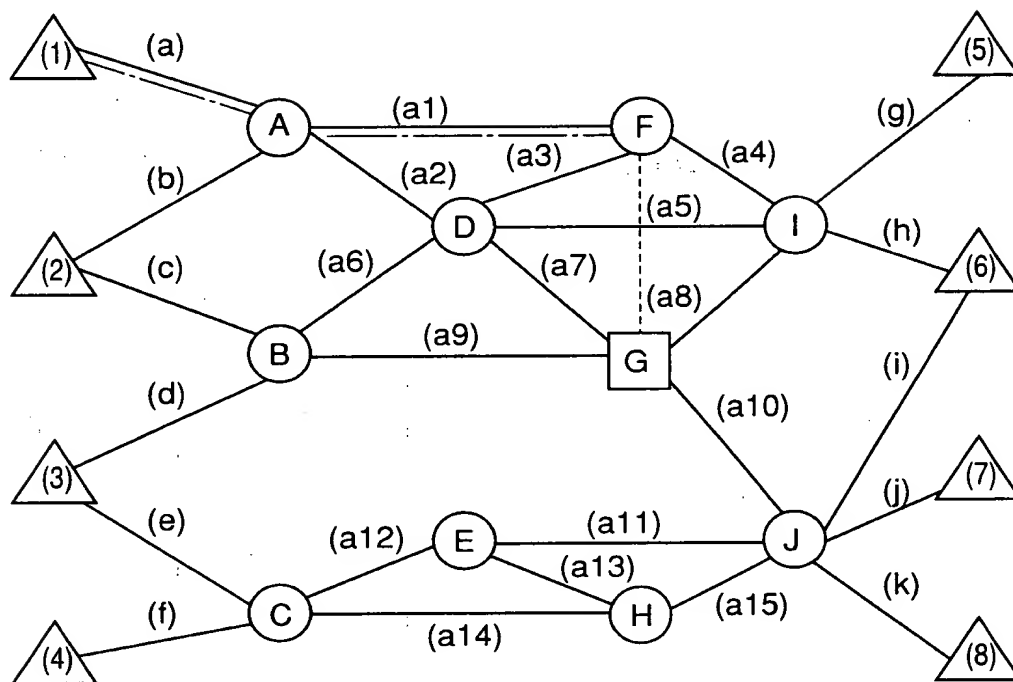
FIG.25



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APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
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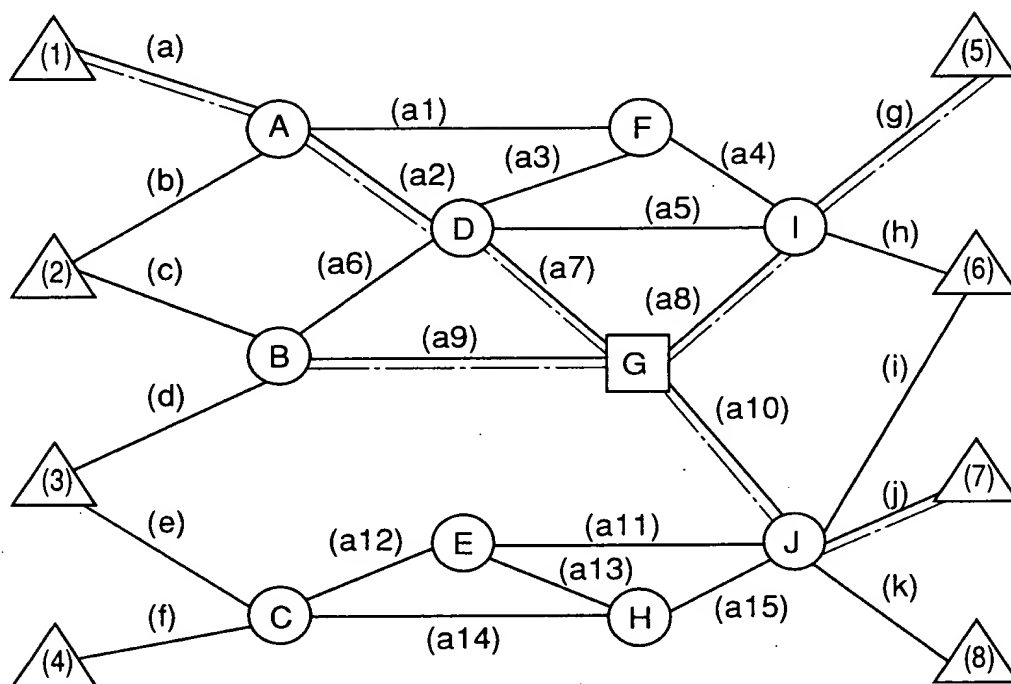
FIG.26



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APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
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FIG.27



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